

Title (en)

Apparatus for adjusting timing of needle and looptaker of sewing machine

Title (de)

Gerät zur Zeiteinstellung der Nadel und der Spulengreifer von Nähmaschinen

Title (fr)

Appareil pour régler la synchronisation de l'aiguille et du crochet d'une machine à coudre

Publication

EP 1972710 A1 20080924 (EN)

Application

EP 08005135 A 20080319

Priority

- JP 2007073936 A 20070322
- JP 2008017686 A 20080129

Abstract (en)

An apparatus for adjusting a timing of a needle and a looptaker of a sewing machine provided at a zigzag sewing machine having an upper shaft (3) for driving a needle bar (12), a lower shaft (17) for driving a looptaker (50), a machine frame (2), and a timing belt (22) for connecting and synchronizing the shafts (3) and (17) includes a cam member (42) including a first cam surface (42a) and a second cam surface (42b), a first arm member (26) and a second arm member (31) supported by the machine frame (2) and a first pulley (23) and a second pulley (24) mounted to the first arm member (26) and the second arm member (31) respectively and always contacting the timing belt (22), the first pulley (23) following the first cam surface (42a) and the second pulley (24) following the second cam surface (42b).

IPC 8 full level

D05B 3/02 (2006.01)

CPC (source: EP US)

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Citation (applicant)

- GB 2073794 A 19811021 - BROTHER IND LTD
- GB 534345 A 19410305 - SINGER MFG CO

Citation (search report)

- [A] GB 2073794 A 19811021 - BROTHER IND LTD
- [A] GB 534345 A 19410305 - SINGER MFG CO
- [A] US 2662495 A 19531215 - FRANK PARRY
- [A] GB 191308706 A 19140409 - FAIRWEATHER WALLACE [GB]
- [A] US 4771715 A 19880920 - INAGAKI HIDETAKA [JP]

Cited by

EP2952618A1; EP3075894A1; US9605366B2; US9976238B2; US9267223B2

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